

Oy	378	GCACAAGCAAGACGCTGTTGAAGCCTTGGAAAGCCATTTCCTAACCTGTATCTGGACAGAA	437
Db	367	ggcggtaccgcgtcgaagctctgaaacacgcgaagacgcgtctgcctacacgtccttactctaa	426
Oy	438	GCTATTGCTCAGTGCCTGCAGTATCATCATCAGCTCC--TTAAAAAGTTGGAGAGTATATC	494
Db	427	ggcattctcaggtctgtgtacacatccctccgtacacccgcgaacacgctagttaancitc	486
Oy	495	TCAGAGAGTATGAGCGCTGTGGGCAACAGTATGTTGTTATCCATCGAAGAAATCTCGAGT	554
Db	487	gctgaaagatcgtgaacaaatctcgttaaagaagcgtctaccacgctctgaagacggtacccgt	546
Oy	555	ATGGAAACAGAACTTGAATGTTGTTAAGGCATTTGCAATTTGACCGTGTACTGTCTCAA	614
Db	547	cgcgcgaagcaaacgcgcgtgtgaaagtctgcaatctgcacgttcacgcctggtactcctcc	606
Oy	615	TACATGCTCACAGACATGAAAAAATGGTTTGCAAGCTTGAAGAAACCAATTTATTTATTC	674
Db	607	tactctatcaacaagacgcggaacactgcgcagtagaaactggaagaccgtctatccctgcgt	666
Oy	675	ACGGTATAAAAAGTCGTCACATCCACAGACATTTTGGCACTCTTGAGAGAGTTCTTAA	734
Db	667	gctgacaaagaabaatctccacacatccgcggaatcgcgcggtctctggaagcgtgtgcacaa	726
Oy	735	ACCAACCGTCCATTACTCTATTATTTGCAGATGATGTGATGTGAAGCACTTCCAACTT	794
Db	727	gcacgacaaacgcgtctgtatctcgtctcgttaagatctgaaagcgcgtgcacatcgtct	786
Oy	795	GTCCTGGAACAAGATTGCTGTCATCTTCAATGATGGTGTGCTGTCAAAGCCCAAGATTGGT	854
Db	787	gtcttcaacacatctcgtctgcctcgtgaagatcgtctgcgtgttaaagcaccggtcttcgc	846
Oy	855	GATGCTGCTTAACCTTATGCTTGGAAGACATTTGCTATTCAGCGTGTACACAGTATTACA	914
Db	847	gctcgtgttaagctatctctgcacgatatcgcacccgcgcgcgcgcgcgcgcgcgcgcgc	906
Oy	915	GAGATCTAGGACTTGTAATTTAAAGATGCTACATGACACGCCCTTGGACAGCGCTGCTAAG	974
Db	907	gaabaagatcgtctgtgaacctctgaaaaagcaaccctctgaaagaccctgggtctcaggtaca	966
Oy	975	ATTACAGTTGATTAAGATAGACACGATTAATGTTGGAAGGTGTAGAGAACTTACAGAGCTAT	1034
Db	967	gtctgtatcaacaagaagacacacacatcatcatcgtatcgtgtgtagaagaagctgtaac	1026
Oy	1035	GCTTAACGCTATTGCACTGATTAATTCGCAATTTGAAGAACACAACTTGTGACTTGCAGCT	1094
Db	1027	caggcgcgcgtgtgtccacagatccgtccgcagatctgtaagaagaacactctgcctacagac	1086
Oy	1095	GAAAAACCTACAGAACCTTTTGGCGAAATTAAGCTGTGCTGTAGCTGTATCAAAAGTAGA	1154
Db	1087	gaaacactcgcgaagaaacgcgtatgcgaaactctgcgaagcgcgcgtctgcaattacaacgt	1146
Oy	1155	GCTCCACAGAGACAGCTTTAAAAAGAAATGAAGAACTCCGATTCGATGAGTGCCTTAAATCT	1214
Db	1147	gtctgtaccggaagcttgtaaatgaaagaaaaaagaacgcgttgaagtgacctgtaacgcg	1206
Oy	1215	ACACGTCGACGCGGTGAAGAAAGAAAGTAAGTGTGGTGGTGGTAACAGCACTATTACGGTT	1274
Db	1207	accgcgtgcgcgtgtagaagaagcgcgtgtctgcgtctggtgtgtgcgcgtgcgcgtgta	1266
Oy	1275	ATTGAAAAAGTAGACGCTCTTGAGCTTGAGGCGATGATGCTACTGACAGCTAACA--TT	1331
Db	1267	gcgctctaaccctgcgcgcgcgtgtgtctcagaacgcgaagacagaacgctgtgtatcaaat	1326
Oy	1332	GTCGCTCCTGCTCTAGAAAGAGCCTGTACCTCAAAATGCTTTAAATCTCTGGTAGACAGC	1391
Db	1327	gcacgtcgcgtgaatcgtgaagctcgcgtcgtctgtaagctcgtattgaaacgcgcgcgaaga	1386
Oy	1392	TCCGTTGATTGACAGTTTGAAGAAACAGCCCTCGAGAACAGAGATTTAACTCTGCACA	1451
Db	1387	tcggtgtgtgtcctaaccgcgtttaaagcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc	1446

```

Oy      1452  GGTGTGGGGTGTATATGATTTAAACAGGATCATTTGACCCTGTAAAGTATACAGATCA 1511
          | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      1447  GAAGAATACGCAACATGATCGACTGGATCTCCGATCCAAACCAAGTAACTGCTCT 1506
          | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Oy      1512  GCGCTTAAAAATSCAGCTTCTGTAGTAGTCTTATTATTTTGACACAGAAAGCAGTTGTGCT 1573
          | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      1507  GCTCTCGATGACGAGCTCTCTGTCGCGCTGATGATCACCACCGAATGAGTGTAC 1566
          | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Oy      1572  AATAAACCTGAACACGACTACGCGACGCCGACCAATCCGACGACGATAG 1620
          | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      1567  GACTCGCGAAACGATGACGCTGACTAGCGCTGCTCGCGATG 1615
          | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT      2
US-09-472-971-7
: Sequence 7, Application US/09472971
: Patent No. 6197547
: GENERAL INFORMATION:
: APPLICANT: SOGO, Kazuo
: APPLICANT: YANAGI, Hideki
: APPLICANT: YURA, Takashi
: TITLE OF INVENTION: TRIGGER FACTOR EXPRESSION PLASMIDS
: FILE REFERENCE: 1422-409P
: CURRENT APPLICATION NUMBER: US/09/472,971
: CURRENT FILING DATE: 1999-12-28
: EARLIER APPLICATION NUMBER: JP10-372965
: EARLIER FILING DATE: 1998-12-28
: NUMBER OF SEQ ID NOS: 7
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 7
: LENGTH: 4524
: TYPE: DNA
: ORGANISM: Escherichia coli
US-09-472-971-7

```

Query Match	35.58;	Score 589.8;	DB 4;	Length 4524;
Best Local Similarity	61.38;	Pred. No. 2.3e+164;		
Matches 986;	Conservative 0;	Mismatches 617;	Indels 6;	Gaps 2

0Y	18	GCAGAAAGAAATCAAAATTTTCACAGATGCGCTGCTCCATGCTGTCGGGAGTTGATATG	77
Db	389	gctcaaaagcgtcaaaatttcgtagaacgcgctctgttgaataatctgcgcgcgttaaacgcta	44
0Y	78	TTACAGATACCGTCACAAAGTAACGGTTGGTCTTAAAGGGCGCAATGTTGTTCTTGAAGAA	13
Db	449	ctggagacatgtagtgaataatctccctcgctccaaagccgttaacgtatgtcttgatata	50
0Y	138	GCTTTGGTTCCTCCCTTAATTAATCAATACGGGGTAACCATTTGCTTAAAGATCGAATTA	19
Db	509	tcttttcgltgcaccgcacataccaaagaatgtgttctcglttcgltgcgtgaataccgacgc	56
0Y	198	GAGATCTATTTTGAAACATGGGAGACAAAANTGGTGTCTGAAGTGGCTCTTAAACCAAT	25
Db	569	gaagacaaagtttcgtaaaatcttgggtgcgcgaatgtgtgaagaagtttgcctccaaagaaac	62
0Y	258	GATATGCTGCTGATGAGGACGACTACTGCAACAGTTTGTACACAAAGCCATTGTTCTGA	31
Db	629	gcgcgtcgaaggcgaacggtaccccccctgcgaacgctactgtctcgaagctacatacactga	68
0Y	318	GGACTTAAAAAATGTGACACAGAGTGCTTAATCCAAATGTGATGCCGACGATCTGAACA	37
Db	689	ggtctcgaagaactgttctgcgcgcatgaaccgcatgacactgaaacgttgatctgcgcaaa	74
0Y	378	GCACACGACACACACTTTCATAGCCCTTAAGCCATTAAGGCATATGTCACCAAGTATGGCAAGGA	43
Db	749	gcggttacgcgctgcagttgaagaacatgaagacgcgtctcgcgtacatactctgcctctaa	80
0Y	438	GCTATTGCTGAGGTGCGTCGAGTATCATCAAGCTC---TGAAAAAGTTGAGAGATATTC	49
Db	809	gcgattgtctcagtttgcgtaccatctccgcgaactccgcgaagaaacgtaagtaataatgtc	86
0Y	495	TCAAAAGCTATGAGAGCGGTGTGGCCAAACGATGTTGATTTACATCGAAGAAATCTCGAGCT	55

Db 869 gctgaagcgtctgtaacaaagtcgtaagaagcgttaccacgcttgaaagcgttacggt 928
 555 ATGAAACACAAATTTAAAGGCAATGCAATTTGACCGGTGTTACCTGCTCAA 614
 929 ctgcaagacgaacatgagcgtgctgaagctatgacgtacggtgctacgtctct 988
 615 TACATGCTCAGACAAATGAAAAATGCTGACACCTGAAAAACCATTTATCTTAATC 674
 989 tactatcaacaagcgaagcgaacatgcaatgaactggaagccgcttcctctgctg 1048
 -675 ACGGATAAAAAGTGTCAAAACATCCAAACATTTGCCACTACTTGAGAGTCTTAA 734
 1049 gctgaacgaacatcccaacatccggaatgctgcggtcttggaagcgtcttgcaaa 1108
 735 ACCAACCGTCATTACTATTATTTGACAGATGATGATGATGATGATGATGATGATG 794
 1109 gcaagcaaacgctgctgctgctgctgctgctgctgctgctgctgctgctgctg 1168
 795 GCTTGAACAAAGTTCGTCGTCATTTCAATGCTGCTGCTGCTGCTGCTGCTGCTGCT 854
 1169 gctgaacgaacatcccaacatccggaatgctgcggtcttggaagcgtcttgcaaa 1228
 855 GATCGTCGTAAGCTATGCTTGAACACATTCCTGCTGCTGCTGCTGCTGCTGCTGCT 914
 1229 gctgctgtaagcgtatgctgctgctgctgctgctgctgctgctgctgctgct 1288
 915 GAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 974
 1289 gaagagatgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 1348
 975 ATTACAGTTGATTAAGATGACACAGTAATGCTGCTGCTGCTGCTGCTGCTGCTGCT 1034
 1349 gctgctgtaagcgtatgctgctgctgctgctgctgctgctgctgctgctgct 1408
 1035 GCTAACCGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1094
 1409 cagagcgtgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 1468
 1095 GAAAAACTCAAAAGACGTTTGCGCAATTTAGCTGCTGCTGCTGCTGCTGCTGCTGCT 1154
 1469 gaagagatgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 1528
 1155 GCTCAACAGACGACGCTTTAAAGAAATGAACTGCTGCTGCTGCTGCTGCTGCTGCT 1214
 1529 gctgctgtaagcgtatgctgctgctgctgctgctgctgctgctgctgctgct 1588
 1215 ACACGTCAGCGCTTGAAGAAAGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1274
 1589 accgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 1648
 1275 ATTGAAAGATGACGCTTGTGAGCTTGAAGGAGATGATGATGATGATGATGATGATG 1331
 1649 gctgctgtaagcgtatgctgctgctgctgctgctgctgctgctgctgctgct 1708
 1332 GTCCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1391
 1709 gctgctgtaagcgtatgctgctgctgctgctgctgctgctgctgctgctgct 1768
 1392 TCCGTCGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1451
 1769 tctgctgtaagcgtatgctgctgctgctgctgctgctgctgctgctgctgct 1828
 1452 GGTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1511
 1829 gaagagatgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 1888
 1512 GCGCTTCAAAATGACGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1571
 1889 gctgctgtaagcgtatgctgctgctgctgctgctgctgctgctgctgctgct 1948
 1572 AATTAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1620

Db 1949 gacctgcgcaaaaacgagtcagctgacttagcgctgctgctgctgctgctgctg 1997
 RESULT 3
 US-08-470-260-7
 ; Sequence 7, Application US/08470260
 ; Patent No. 6077706
 ; GENERAL INFORMATION:
 ; APPLICANT: Coracci, Antonello
 ; APPLICANT: Bugnoli, Massimo
 ; APPLICANT: Telford, John
 ; APPLICANT: Macchia, Giovanni
 ; APPLICANT: Rappuoli, Rino
 ; TITLE OF INVENTION: Helicobacter Pylori Proteins Useful
 ; NUMBER OF SEQUENCES: 7
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Chiron Corporation
 ; STREET: 4560 Horton Street
 ; CITY: Emeryville
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 94608-2916
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/470,260
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/256,848
 ; FILING DATE: 21-OCT-1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: McClung, Barbara G.
 ; REGISTRATION NUMBER: 33,113
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (510) 601-2708
 ; TELEFAX: (510) 655-3542
 ; INFORMATION FOR SEQ ID NO: 7:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1838 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; US-08-470-260-7
 Query Match 31.8%; Score 528.6; DB 3; Length 1838;
 Best Local Similarity 58.9%; Pred. No. 1.7e-146;
 Matches 966; Conservative 0; Mismatches 664; Indels 9; Gaps 3;
 13 ATATGCAAAATAATCAATTTTACAGACATGCGGCTGCTGCTGCTGCTGCTGCTGCTG 72
 56 AATGCAAAATAATCAATTTTACAGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 115
 73 ATATGTCAGATACGCTTCAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 132
 116 GGCACCTCCATCCGCTGCTCAAAATCAATGAGGCAAGGCAAGGCAAGGCAAGGCAAGG 175
 133 AAAAAGCTTTGCTGCTGCTTAAATTTACTAATGACGGGGTAACATTTGCTAAAGAGATCG 192
 176 AAAAAGCTATGCGCTCAAGCATCACCAAGAGCGGGTGAAGGCTGAAGAGATTTG 235
 193 AATTAAGATATTTTGAAGAAATGGAAGCAAAATTTGCTGCTGCTGCTGCTGCTGCTG 252
 236 AATTAAGTTCGCCACTACTACTAATGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 295
 253 CCAATGATATTCCTGCTGATGAGGACGACTACTGCAACAGTTTGTGACACAGCATTTGTC 312

```

Db 296 CCGCTGATGCTGCGCGCGATGCGACACACAGGACCGGCTAGCTTATAGCATTTT 355
Oy 313 ATGAGSACTAAATAATGACAGAGTGTATATGCAATGTGATCCGTGAGCATTTG 372
Db 336 AAGAGTTGAGAGATATACAGGCTGGGCTAACTTATGAAAGTGAAGAGGACATGG 415
Oy 373 AAGACAGACAGACAGCTGTGAAAGCTTGAAGCCATTCGACCTGATCTGCA 432
Db 416 ATAAAGCTCTGAGAGATCATATATGCTTAAATAAGCGACAAAATAGCGGCTA 475
Oy 433 AGGAGCTATTCAGTGTGAGTGTGATGATGATGATGATGATGATGATGATGATG 489
Db 476 AAGAGAAATCAACCAAGTGGGACATTTCTGCAACCTGATGATGATGATGATG 535
Oy 490 ATATCTCAGACCTATGAGAGCTGTGGGACAGATGATGATGATGATGATGATG 549
Db 536 TCATGCTGACCTATGAGAAAGTGGGTAAAGACGGGCTGATCACCTTGAGAAAG 595
Oy 550 GAGGATGAAACAGAACTTGAAGTGTGAGGATGATGATGATGATGATGATGATG 609
Db 596 AGGCAATGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 655
Oy 610 CTCATACATGCTGACAGACATGAAAAATGTTGACAGACCTTGAACCCATTTAT 669
Db 656 CCGCTTATTTGTAACGACGCTGAGAAATGACGCTCAATGATGATGATGATGATG 715
Oy 670 TAATCAGGATAAAAAGTGTCAACATCCAGACATTTGCTGCTGATGAGAGTTC 729
Db 716 TTTTAAAGGATAAAAATCTGATGATGATGATGATGATGATGATGATGATGATG 775
Oy 730 TTAATAACCAACCGCTGATGATGATGATGATGATGATGATGATGATGATGATG 789
Db 776 TGAAGAAGGCAACCGCTTATGATGATGATGATGATGATGATGATGATGATGATG 835
Oy 790 CCGTGTGTTGACAGATGATGATGATGATGATGATGATGATGATGATGATGATG 849
Db 836 CTCATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 895
Oy 850 TTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 909
Db 896 TTGGGACAGAAAGAAAGTGTCAACGATGATGATGATGATGATGATGATGATG 955
Oy 910 TTACAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 969
Db 956 TTAGGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1015
Oy 970 CTAAGATTACAGTGTGATGATGATGATGATGATGATGATGATGATGATGATG 1029
Db 1016 GAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1075
Oy 1030 CTATTCATACCTGATGATGATGATGATGATGATGATGATGATGATGATG 1089
Db 1076 ATGTTAAAGACAGAGTGGGACGATCAAAACCCAAATGCAAGTACGACAAAG 1135
Oy 1090 ACCGTGAAACATCAAGACGTTGGGAAATTAAGTGTGATGATGATGATGATG 1149
Db 1136 ACAAAGAAATGCAAGAAAGATGATGATGATGATGATGATGATGATGATGATG 1195
Oy 1150 TAGAGCTGCAACAGACAGCTTTAAAGAAATGAACTTGATGATGATGATGATG 1209
Db 1196 TGGGCGCTGAGATGATGATGATGATGATGATGATGATGATGATGATGATG 1255
Oy 1210 ATCTACAGCTGACCGCTGAGAGATGATGATGATGATGATGATGATGATGATG 1269
Db 1256 GCGGAGCTAAAGCGGCTGAGAGAGATGATGATGATGATGATGATGATGATG 1315
Oy 1270 CGGTTATGAAAAATGATGATGATGATGATGATGATGATGATGATGATGATG 1329
Db 1316 GCGGCGCTCAAAAAGT---GATGATGATGATGATGATGATGATGATGATGATG 1372
Oy 1330 TTGTGCTTGCTCTAGAGAGCTGATGATGATGATGATGATGATGATGATGATG 1389

```

```

Db 1373 TCATATGCGCGCCATTAAACCCATTAGCTCAATGCTATCAACCGCTGTATG 1432
Oy 1390 GCTCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1449
Db 1433 GCGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1492
Oy 1450 CAGGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1509
Db 1493 ATGGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1552
Oy 1510 CAGCGCTTCAAAATGATGATGATGATGATGATGATGATGATGATGATGATG 1569
Db 1553 TCGCTCTCAAAATGATGATGATGATGATGATGATGATGATGATGATGATG 1610
Oy 1570 CTAAATAAACCTGAACCGCTACCGCAGCCAGCAATGATGATGATGATGATG 1629
Db 1611 -GATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1669
Oy 1630 TGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1648
Db 1670 GTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1688

```

```

RESULT 4
US-08-471-491-7
; Sequence 7, Application US/08471491B
; Patent No. 6090611
; GENERAL INFORMATION:
; APPLICANT: Covacci, Antonello
; APPLICANT: Bugnoli, Massimo
; APPLICANT: Telford, John
; APPLICANT: Macchia, Giovanni
; APPLICANT: Rappelli, Rino
; TITLE OF INVENTION: Helicobacter Pylori Proteins Useful For Vaccines And
; FILE REFERENCE: CHIR004
; CURRENT APPLICATION NUMBER: US/08-471.491B
; NUMBER OF FILING DATE: 1995-06-06
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 7
; LENGTH: 1838
; TYPE: DNA
; ORGANISM: Helicobacter pylori
US-08-471-491-7

```

```

Query Match 31.88; Score 528.6; DB 3; Length 1838;
Best Local Similarity 58.98; Pred. No. 1.7e-146;
Matches 966; Conservative 0; Mismatches 664; Indels 9; Gaps 3;
Oy 13 ATATGCAAAAGAAATCAATTTTACAGAGATGCGGCTGCTCCATGCTGCGGAGTTG 72
Db 56 aaatgcaaaagaaatcaatlttcagatagtcggaacaccltlatlgaagcgctg 115
Oy 73 ATATGTTAGCAGATACCGTCAAGTAAAGTACGCTGCTCTTAAGGGGCAATGTTT 132
Db 116 ggcacatccatgagcgcgtcaaaagtaacatgagcagcaagagcagatgattatg 175
Oy 133 AAAAAGCTTTGGTTCCTTAAATTAATGAGGAGTAAACCATGCTTAAAGAGATG 192
Db 176 aaaaagctatgagcgcctcaagatcaccaaaagcgcgtagagcgtlgaagagatg 235
Oy 193 AATTGAAGATCATTTGAAACATGAGAGCAAAATGTTGTTGATGATGATGATGATG 252
Db 236 aattgaagatcatattgaaacatgagagcaaaatggtgctgaagagcgtttttaa 295
Oy 253 CCAATGATATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 312
Db 296 ccgatgctgagcgcgagatgagcagcagcagcagcagcagcagcagcagcagcag 355
Oy 313 ATGAAGACATPAAAAATGATGATGATGATGATGATGATGATGATGATGATGATG 372

```

```

Db 356 aagaaggttcgagaatatacgcgtcggtgctaacccatttgaaatgaacgagcatg 415
QY 373 AAACGCAAGCAAGCAAGCGTGTGAAGCCCTGTAAGCCATTGCTCAACCTGTATCTGGCA 432
Db 416 ataaagcgcgcgaagcgtatcaatgaagcttaaaagaacgagcaaaaagtagcgcta 475
QY 433 AGGAAGCTATGTGCTCAGAGTGCCTGAGTATCATCAGCTC--TGAAAAAGTTGAGAGT 489
Db 476 aagaagaatacaccacgaatgtagccattctgcgaactccgcatacaatatacggaaac 535
QY 490 ATATCTGAGAAAGCATGAGCGCTGTGGCAAGATGAGTGTATTAATCATGGAAGATCTC 549
Db 536 tcatcgctgaagcgtatgagaaaagtaggaaagcagcgatcatcaccgttgaaggaagcta 595
QY 550 GAGCTATGGAAGCAAGACTTGAAGTGTGAAGCATGATTTGACCGTGTGTACTCTGT 609
Db 556 agggcattgaaatgaaatgaaatgaaatgaaatgaaatgaaatgaaatgaaatgaaatg 655
QY 610 CTCAATACATGCTCAGACAGCAATGAAAGGTTGCAAGACTTGAAGCCATTATCT 669
Db 656 cccctatttctgaagcagcgtgagaaatgacgcgcacattggaatacgttaccatcc 715
QY 670 TAAACACGGAATAAAAGTGTAAATCAAGACATTTTCCACTACTTGAAGAACTTC 729
Db 716 tttaacggaataaaaaatctctacgaaagacattcccgctactagaaaaaaca 775
QY 730 TTAACCAACCGCTCATCTACTTATTTGAGATGATGATGATGATGATGATGATGATGAT 789
Db 776 tgaagagggcaaacgcgtttaaatacgcgttgaagcatttgagggcgaagcgtttaaaga 835
QY 790 CCCCTGCTTGAACAGATTCGTGCTACTTCAATGTTGCTGCTCAAGCCGCAAGAT 849
Db 836 ctccagaggggaataaataaagagcggttgaatacagagcggttgaagcgttcaagcgt 895
QY 850 TTGCTGATGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 909
Db 896 ttgggagcagaagaaagaatgagcgtcgtatctttaaatacgcgttgaagcgttcaagcgt 955
QY 910 TTACAGAGATCTAGACTTGAATTTAAAGTCTACATGACAGCCCTTGACAGGCTG 969
Db 956 ttgagcagaagcgttgcgttgcgttgcgttgcgttgcgttgcgttgcgttgcgttgcgtt 1015
QY 970 CTAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1029
Db 1016 gaagagcttgcgttgcgttgcgttgcgttgcgttgcgttgcgttgcgttgcgttgcgtt 1075
QY 1030 CTATGCTTAACCGTATTTGCACTGATTAATGCAATTAAGAAACAACCTTCTGATTTG 1089
Db 1076 agcttaagacagagcgtcgcagatcaaaacccaatgcaagtaagcagaagcgaattatg 1135
QY 1090 ACCGTAAGAACTACAGAACGTTTGCGAATTAAGTGTGCTGATGATGATGATGATGATGAT 1149
Db 1136 acaaaagaaaatctgcaagaagaatctgcaaaactcgtcggtggtggtggtggtggtggt 1195
QY 1150 TAGGAGCTCAACAGAGACAGCTTTAAAGAAATGAATTTGGCTTTAGAGATCTCTAA 1209
Db 1196 tgggagcgcgagagagagagagagagagagagagagagagagagagagagagagagagag 1255
QY 1210 ATGCTACACGTCAGCCGTTGAAGAGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1269
Db 1256 ggcgcacctaaagcgcgttgcgaagagcattgattggtggtggtggtggtggtggtggt 1315
QY 1270 CGGTATTTGAAAAGTGAAGCTCTTGAAGCTTGAAGGAGATGATGATGATGATGATGATGAT 1329
Db 1316 ggcgcgcgcacaaagt--gcatttgaatttcacagatgagaaagtagggtacataaa 1372
QY 1330 TTGCTGCTTCTGCTGCTTGAAGAGCTGCTGCTGCTTAAATGCTGCTGCTGCTGCTGCT 1389
Db 1373 tcatcaatgagcgcattaaagcccatctagcacaatgcatacaagcgtgattatgagtg 1432
QY 1390 GCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1449
Db 1433 ggcgtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggtggt 1492

```

```

QY 1450 CAGTGAAGTGGTGTGATGATTAATAACAGAAATCATTTGACCTGTGTAAGTACAGCAT 1509
Db 1493 atgcaagatgtagtgatagatgatttaaaagaagcattatgacccctaaagtagaaagga 1552
QY 1510 CAGCCCTTCAAAATGACGCTTCTGTAGTACTTATTTTGAACAGAGAGAGTGTG 1569
Db 1553 tgccttcaacaaatgaggttgcgttgcgttgcgttgcgttgcgttgcgttgcgttgcgtt 1610
QY 1570 CTATTAACCTGAAACCAAGCTACAGCCAGCCAGCAATGCAAGATGATGATGATGATGAT 1629
Db 1611 -gcatgaaatcaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 1669
QY 1630 TGATGCTGGATGGCGCG 1648
Db 1670 gtaagagagcagtgagcg 1688

RESULT 5
US-08-466-662-7
; Sequence 7, Application US/08466662B
; Patent No. 6130059
; GENERAL INFORMATION:
; APPLICANT: Covacci, Antonello
; APPLICANT: Bugnoli, Massimo
; APPLICANT: Telford, John
; APPLICANT: Macchia, Giovanni
; APPLICANT: Rappuoli, Rino
; TITLE OF INVENTION: Helicobacter Pylori Proteins Useful For Vaccines And
; FILE REFERENCE: CHIR0057
; CURRENT APPLICATION NUMBER: US/08/466,662B
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 1838
; TYPE: DNA
; ORGANISM: Helicobacter pylori
US-08-466-662-7

Query Match 31.8%; Score 528.6; DB 3; Length 1838;
Best Local Similarity 58.9%; Pred. No. 1.7e-146;
Matches 966; Conservative 0; Mismatches 664; Indels 9; Gaps 3;

```

OY	1510	CAGCGCTTCAAAATGACACTCTCTGACTACTGCTCTTATTTTGGACAACAGAAAGCAGTTGTGG	1568
Db	1553	tcgcctacaanaatgcgttttcggtttccaagcttcgcttttaacacagaaggaacacgct--	1610
OY	1570	CTATATAACTGCAACACTCTAGCGCAGCGCCACAGCAATGCGACGAGTATGATCCAGAA	1628
Db	1611	-gcgaatcaatcaagaagaaagaaagacgacttcgcgcaatgcctcgatataggtgycatgagc	1668
OY	1630	TGATGGGTGGAGATGGCGCG	1648
Db	1670	gtatggaaagcatgagcgcg	1688

05-08-46/-822-28

Query Match	29.9%	Score 496.6;	DB 2;	Length 2284;
Best Local Similarity	58.1%;	Pred. NO. 5.6e-137;		
Matches 953; Conservative	0;	Mismatches 674;	Indels 12;	Gaps 4;

QY 13 ATATGCAAAATCAATTTTACGACATGCGCGTGTGCTCCATGTGCGCGAGTTG 72
 Db 504 AAATGGCAAAATCAATTTTACGACATGCGCGTGTGCTCCATGTGCGCGAGTTG 563
 QY 73 ATATGTTACAGATACCGTCAAAAGTAAAGCTGTCTTAAGAGGCGCAATGTGTTCTG 132
 Db 564 GACACATCCATGACCGTGTCAAAAGTAAAGCTGTCTTAAGAGGCGCAATGTGTTCTG 623
 QY 133 AAAAAGCTTTGGTCTCTCCCTTAATGATGAGGGGTAAACCATGCTTAAGATCG 192
 Db 624 AAAAAGCTTTGGTCTCTCCCTTAATGATGAGGGGTAAACCATGCTTAAGATCG 683
 QY 193 AATTAGAGATCAATTTTAAACATGGAGCAAAATGTGTCTGAGTGGCTTCTTAAA 252
 Db 684 AATTAGATTTGCGCGCTGCTAACATGGGCGCTGACGCTTGTAAAGATGGAGCAAAA 743
 QY 253 CCAATGATTTGCTGTGTGAGGAGCTACTGCAACAGTTTGTACACAGCATTTGTC 312
 Db 744 CCGCTGATCCCGCGCGCATGCGACGACACAGCGCATGCTGCTGTATGACATTTTAA 803
 QY 313 ATGAGAGCTAAAAATGTGACACAGGTGCTTAATCAATGTGTATCCGTGAGGCAATG 372
 Db 804 AAGAGGCTTTGAGGAAATTCAGCGCTGGGCTTAACCTTATGAAAGTAAAGAGGCAATG 863
 QY 373 AAACAGCAACAGCAACACCTTGTGAAGCTTGAAGCCATTTGCTCAACCTGTATCTGCA 432
 Db 864 ATTAAGCCGCTGAAGCCATTCATTAATGAGCTTAAAGACGCAAAAGAGTGGCGGTA 923
 QY 433 AGGAAGCTATTTGCTGAGTGTGCTGACATCATCAGCTC--TGAAAAAGTTGAGAGT 489
 Db 924 AAGAGAAATCAACCAAGTACGCGCATTTCTGCAAACTCCCATGACAAATTCGGGAAC 983
 QY 490 AATCTCAGAACTATGAGAGCTGTGGGCAACGATGTGTATTCATGCAAAATCTC 549
 Db 984 TCATGCTGAGAGCTATGGAAGAGTGGGTAAAGCCGCTGATACCTTTAAAGAACTTA 1043
 QY 550 GAGGTATGGAACAGAACTTGAAGTGTGAAGGCAATTTGACCGTGTGTTACTGT 609
 Db 1044 AGGGATTTGAAGATTAATGATGTGTGAAGGCAATTTGATGAGAGGCTACCTCT 1103
 QY 610 CTCATATACATGCTGACAGACATGAAAAATGTTGTCAGACCTTGAAGCCATTTATCT 669
 Db 1104 CCCCTTACTTTGTAAACAGCTGAGAAATATGACGCTCAATGTGATTAACCTTACTTC 1163
 QY 670 TAAATGAGGATTAAGAGTGTCAAAATTCAGACATTTTGCACATCTTGAAGAGTTC 729
 Db 1164 TTTTAAAGGATTAAGAGTGTCAAAATTCAGACATTTTGCACATCTTGAAGAGTTC 1223
 QY 730 TTAACCAACCCGCTCATCTATCTATTTGATGATGATGATGATGATGATGATGATG 789
 Db 1224 TGAAGAGGAGCAACCCCTTTTAATCATGCTGAAGACATTTGAGGGGAGCTTTAAACA 1283
 QY 790 CCCCTGTTGAACAAATCTGCTGATCTTCAATGCTGTGCTGCTCAAAAGCCGAGAT 849
 Db 1284 CTCGTATGATTAATTAAGAGGCTGTGTGAATGCTGACGCGTTAAAGCTCCAGGCT 1343
 QY 850 TTGCTGATCTGCTGAAGCTATCTTGAAGACATTTGCTATCTGACAGTGTGATACGTA 909
 Db 1344 TTGGGAGAGGAGAAAGAAATCTCAAGACATCGTGTTTAAACGGGGGATCAAGTCA 1403
 QY 910 TTAAGAGGATCTGAGCTGATTAAGATGCTAAGATGACAGCCCTTGGACAGGCTG 969
 Db 1404 TTAAGAGGATCTGAGCTGATTAAGATGCTAAGATGACAGCCCTTGGACAGGCTG 1460
 QY 970 CTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTA 1029
 Db 1461 CTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTA 1520
 QY 1030 CTAATGCAACCGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTA 1089
 Db 1521 ACCTGCAAGAGAGTGTGCGCAATTAAGATTAAGATTAAGATTAAGATTAAGATTAAG 1580
 QY 1090 ACCTGCAAGAGAGTGTGCGCAATTAAGATTAAGATTAAGATTAAGATTAAGATTAAG 1149

Db 1581 ACAAGAAAAATTCAGAGAAAGATTTGGCAAACTCTGCGGCTGTGCTGTGATTAAG 1640
 QY 1150 TAGGAGCTCCACACAGACACCTTTAAAGAAATGAATTCGATTTGAGAGATGCTTAA 1209
 Db 1641 TGAGGCTCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1700
 QY 1210 ATCTACAGCTACAGCCGCTTGAAGAGTATCTGCTGTGTGTGTGTGTGTGTGTGTGT 1269
 Db 1701 GCGGAGCTAAAGCGCGGCTTGAAGAGCATTTGTGATTTGGGCGGCTGCGGCTCATTC 1760
 QY 1270 CGGTATTAAGAAATGATACAGCTGTGAGTGTGAGGCGATGATGATGATGATGATGAT 1329
 Db 1761 GCGGCGGCGCAAAAGT---GATTTTAATTTTACAGATGATGATGATGATGATGATG 1817
 QY 1330 TTGTGCTTGTGCTCTAGAGAGCTGTGATCAAAATTCCTTTAAATGCTGGGTACGAG 1389
 Db 1818 TCATCATGTGCGCGCTTAAAGCCCATTAAGCTCAATGCTATCATGCGGTTATGATG 1877
 QY 1390 GTCCTGATTTATGACAAAGTTGAAGAAACGCCCTGCAAGAAAGATTAATGCTGCA 1449
 Db 1878 GCGGCTGTGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1937
 QY 1450 CAGGTGATGAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 1509
 Db 1938 ATGGCAAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1997
 QY 1510 CAGCGCTTCAAAATGACAGCTTCTGTAGTACTTATTTGACAAAGAGAGAGTGTG 1569
 Db 1998 TCGCTTTCAAAATGAGCGGTTGCGTTCAAGCTCTTCTTAAACAGAAAGCCAGCT-- 2055
 QY 1570 CTATTAACCTGAACAGCTACGCCAGCGCCAGCAATGCGAGAGTATGATGATGATG 1629
 Db 2056 -GCTGAAGTCAAGAAAGAAAGCGGCCAGCAATGCTGATATGATGATGATGATG 2114
 QY 1630 TGATGCTGTGAGTGGCGG 1648
 Db 2115 GAATGGAGGATGGCGG 2133

RESULT 7
 US-08-432-697-28
 ; Sequence 28, Application US/08432697
 ; Patent No. 6248330
 ; GENERAL INFORMATION:
 ; APPLICANT: Labigne, Agnes
 ; APPLICANT: Sauerbaum, Sebastien
 ; APPLICANT: Ferrero, Richard L.
 ; APPLICANT: Thibierge, Jean-Michel
 ; TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS AGAINST
 ; TITLE OF INVENTION: HELICOBACTER INFECTION, POLYPEPTIDES FOR USE IN THE
 ; TITLE OF INVENTION: COMPOSITIONS, AND NUCLEIC ACID SEQUENCES ENCODING SAID
 ; NUMBER OF SEQUENCES: 44
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Flunegan, Henderson, Farabow, Garrett &
 ; STREET: 1300 I Street, N.W.
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: USA
 ; ZIP: 20005-3315
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/432,697
 ; FILING DATE: 02-MAY-1995
 ; CLASSIFICATION: 424
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Meyers, Kenneth J.

REGISTRATION NUMBER: 25,146
 REFERENCE/DOCKET NUMBER: 03495.0137-00000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 408-4000
 TELEFAX: (202) 408-4400
 INFORMATION FOR SEQ ID NO: 28:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2284 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 US-08-432-697-28

Query Match 29.98; Score 496.6; DB 4; Length 2284;
 Best Local Similarity 58.18; Pred. No. 5,6e-137;
 Matches 953; Conservative 0; Mismatches 674; Indels 12; Gaps 4;

13 ATATGCAAAAGAAATCAAAATTTTACAGAGATCGCGTCTCCATGCGCGAGATTG 72
 504 AATGGCAAAAGAAATCAAAATTTTACAGATGCGCAAGAAACCTTTATTTGAAGCGTAA 563
 73 ATATGTACAGATACGCTCAAGTACGCTTGCTCTTAAGGCGCAATGTTCTTG 132
 564 GACAATCCATGACCTGTCAAAAGTACATGCGGCAAGAGCGCAAGAGCTGTATCC 623
 133 AAAAGCTTTTGTCTCCCTTAATTAATGACGGGGTAAACATTGCTAAAGAGATCG 192
 624 AAAAAGCTATGCGCTCCCAAGCATCACAAAGCGGGGTGAGCGTGAAGAGATTTG 683
 193 AATTAGATCATTTTGAAGAAACATGAGGCAAAATTTGGTGTCTGAAGTGGCTTCAAAA 252
 684 AATTAGTGGCCCGGTGCTAATGCGGCTCAGCTGTTTAAAGAAAGATCCAGCAAAA 743
 253 CCAATATATTGCTGTGATGAGAGCACTACTGCAACAGTTTGACAAAGCATTTGTTT 312
 744 CGCGTATGCGCGGGGATGAGCAACACAGCAGCGCTGCTGCTTAATAGCATTTTAA 803
 313 ATGAAGACTAAAAATGTGACAGAGGTGCTATCAATTTGTTATCCGTCGGAGATTTG 372
 804 AAGAGGGCTGAGGATATCAACGGCTGAGGCTTAACCTATTGAAGTAAACAGAGCATGG 863
 373 AAACAGCAACAGCAACAGCTTTGAAGCCTTGAAGCCATTGCTCAACCTGTATCTGCA 432
 864 ATAAAGCCCTGAAGCGATCATTAATGACCTTAAAAAGCAGCAAAAAAGTGGCGGTA 923
 433 AGAAGCTATTGCTCAGGTGCTGAGTATCATCAGCTC--TGAAGAGTTGAGAGT 489
 924 AAGAAGAAATCAACCAAGTAGGACATTTCTGCAAACTCCGATCAAAATTCGGAAC 983
 490 ATATCTCAGAGCTATGAGACGCTGTGGCAAGATGTGTGATTACCATGCAAGATCTC 549
 984 TCATGCTGACGCTATGAGAAAAAGTGGTAAAGACGGGTGATCACCCTTGAAGAGCTA 1043
 550 GAGTATGGAACAGAACTTGAAGTGTGAAGCATGCAATTTGACCCGTTGCTCCT 609
 1044 AGGCGATTGAAGATGAATTAATGATGTGTGAAGGATGCAATTTGATAGAGCTACCT 1103
 610 CTCATATACGTGACAGCAATGAAAAATGTTGCAAGCTTGAAGAACCATTTATCT 669
 1104 CCCCTTACTTTGTAACCAAGCGCTGAGAAAAATGACCGCTCAATTTGGAATGCTTACATCC 1163
 670 TAATACGAGTAAAAAAGTGTCAAAATCAGACATTTTGCACACTACTTGAGAGTTTC 729
 1164 TTTTACGAGTAAAAAATCTCTACAGAAAGACATTTCCCGGACTAGTAAAGAAACCA 1223
 730 TTAAGACCAACCGCTTACATTAATGAGATGATGTGAGTGTGAGAGCACTTCCAA 789
 1224 TGAAGAGGCAAAACCGCTTTTAACTCATGCTGAGAGCACTTGAGGCGAAGCTTTAAACGA 1283
 790 CCGTGTCTTGAACAAAGATGCTGTACTTCAATGTGTGCTGTCAAGGCGCCAGAT 849

Db 1284 CTCATGAGTGAATTAATTAAGAGCGGTGTGATATGCGACCGCTTAAAGCTCCAGGCT 1343
 Oy 850 TTGGGATCGCTGTAAGAACTATCTTGAAGACATTTGTAATCTTGAAGGTGTACAGTGA 909
 Db 1344 TTGGGAGACGAGAAAGAAATGCTCAAAAGACATGCTGTTTAAACCGCGGCAAGTCA 1403
 Oy 910 TTACAGAGATCTAGACATTAATTAAGATGCTACATGACAGCCCTTGSACAGCTG 969
 Db 1404 TTAGCGAAGATTTGGGCTTAGCTCTGAAAGACCTGGAAGTGTG--GAATTTTGGCAAG 1460
 Oy 970 CTAAATATACGTTGATTAAGATGACAGCATTAATTTGTAAGTTGACGAAGTTCAAG 1029
 Db 1461 CGAAGATTGATTGACAAAGACACACCATGATGATGCGAAGCCCATAGCCATG 1520
 Oy 1030 CTATTGCTAACCGTATTTGCTACTGATTAATTCGATTTGAACAACAACATCTTGACTTG 1089
 Db 1521 ACGTCAAAAGACAGATGCGCGCAATTAACCAATTTGCAAGACGACCAAGGATTTAG 1580
 Oy 1090 ACCGTGAAAAAATCTCAAGAAAGCTTTGCGCAATTAAGTGTGTGTAGCTTTATCAAG 1149
 Db 1581 ACAAGAAAAATTTGCAAGAAAGATTTGGCCAAATCTCTGCGGCTGTGCTGATTTAAAG 1640
 Oy 1150 TAGAGCTCCACAGAGACAGCTTTAAAGAAATGAAACTTGCATTTAGAGATGCTTAA 1209
 Db 1641 TGGGCGCTGCGAGTGAAGTGAAGAAAGAAAAAGAACCGGGGTGATGAGCGTTGA 1700
 Oy 1210 ATGCTACACGCGAGCGGTTTGAAGAAAGTATGCTGCTGCTGCTGAGCAACGACTATTA 1269
 Db 1701 GCGGACATTAAGCGCGGCTTGAAGAAAGCATTTGATTTGGGGGGGTGCGGCCCTCATATTC 1760
 Oy 1270 CGGTTATTGAAAAAGTAGACGCTCTTGAAGTTGAGGCGATGATGCTAGCACTAACA 1329
 Db 1761 GCGGCGCCCAAAAGT--GCATTTGAATTTACAGATGATGAAGAAAGGCGCTATGAAA 1817
 Oy 1330 TTGTCTTCTGCTCTAGAGAGACCTGTACGCTAAATTTGCTTAAATGCTGGGTACGAG 1389
 Db 1818 TCATCATGCGCGCATTAAGGCCATTAATGCTCAAAATGCTATCATATGCGGTTATGATG 1877
 Oy 1390 GCTCCGCTATTTAGCAAGTTGAAAAACACCCCTGCAGAGACAGATTTAATGCTGCA 1449
 Db 1878 GCGGTGTGCTGGAATGAATGAAGAAACAGAAAGGCGCTTTTGAACCTACCA 1937
 Oy 1450 CAGGTGAGTGGTGTATGATTAACAGAAATCATTTGACCCCTGCAAGTAACAGAT 1509
 Db 1938 ATGGCAAGTATGTGAGCAATGTTAAAGAGCATTTATGACCCCTTAAAGTAGAAGAA 1997
 Oy 1510 CAGGCTCAAAATGACGCTTCTGTAGCTATTAATTTGACACAGAGCAAGTGTG 1569
 Db 1998 TCGCTTTACAAATGCGGTTTCTGTTTCAACCTGCTTTTAAACAGAGCAACCT-- 2055
 Oy 1570 CTATAACCTGACAGCTACGCGCAGCAGCAATGCGAGAGTATGATCGAGAA 1629
 Db 2056 -GCATGAATCAAAAGAAAAAGCGGCCAGCAATGCTGATTTGGGTGATGGCG 2114
 Oy 1630 TGATGGTGGATGGCGG 1648
 Db 2115 GAATGGAGCATGGCGG 2133

RESULT 8
 US-08-466-248-28
 : Sequence 28, Application US/08466248
 : Patent No. 6258359
 : GENERAL INFORMATION:
 : APPLICANT: Labigne, Agnes
 : APPLICANT: Sauerbaum, Sebastien
 : APPLICANT: Ferrero, Richard L.
 : APPLICANT: Thibierge, Jean-michel
 : TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS AGAINST
 : TITLE OF INVENTION: HELICOBACTER INFECTION, POLYPEPTIDES FOR USE IN THE
 : TITLE OF INVENTION: COMPOSITIONS, AND NUCLEIC ACID SEQUENCES ENCODING SAID
 : NUMBER OF SEQUENCES: 44

CORRESPONDENCE ADDRESS:
ADDRESSEE: Flinnegan, Henderson, Farbow, Garrett &
ADDRESSEE: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/466,248
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/447,177
FILING DATE: 19-MAY-1995
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/432,697
FILING DATE: 02-MAY-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 03495.0137-02000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4000
TELEFAX: (202) 408-4400
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 2284 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-466-248-28

Query Match 29.98; Score 496.6; DB 4; Length 2284;
Best Local Similarity 58.18; Pred. No. 5.6e-137;
Matches 953; Conservative 0; Mismatches 674; Indels 12; Gaps 4;

QY 13 ATATGCAAAAGAAATCAATTTTCAGCAGATGCGGCTGCTGCCATGTGCGCGAGTTG 72
DB 504 AATTTGCAAAAGAAATCAATTTTCAGCAGATGCGGCTGCTGCCATGTGCGCGAGTTG 72
QY 73 ATATGTTACAGATACCGTCAAGTAAAGCTGTGCTTAAAGGCGCAATGTGTCTTG 132
DB 564 GACACTCATGACCTGTCAATTAACATGCGGCGCAAGAGCAGAACTGTGTATTC 623
QY 133 AAAAAGCTTTGGTCTCCCTTAATTAATGACGGGTAAACATTTGCTAAAGATCG 192
DB 624 AAAAAGCTTTGGTCTCCCTTAATTAATGACGGGTAAACATTTGCTAAAGATCG 192
QY 193 AATTAGAGATCATTTTAAAGCAATGAGCAAAATTTGCTGCTGAAGGCTTCTTAA 252
DB 684 AATTAGATTTGCCCCGTGCTAAAGTGGGCTCAGCTGTTAAAGATGCGAGCAAAA 743
QY 253 CCAATGATTTTGGCTGTGATGAGGAGCTACTGCAACATTTTGGACAAAGCATTTGTT 312
DB 744 CCGCTATTCGCGCGCGATGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 803
QY 313 ATGAAGAGCTAAAAATGACAGCAGAGTGTCTAATCAATTTGCTGCTGAGGAGATG 372
DB 804 AAGAGGCTTTGAGAAATATCAGGCTGAGGCTTAACCTATTTGAAGTGAAGAGAGAG 863
QY 373 AAAGAGCAAGCAGCAGCAGCTGTGAAGCTTTGAAGCAGCAGTGTCTAATCTGCA 432
DB 864 ATTAAGCGCTGTAAGCGATCATTAATGAGCTTAAAGAGCAGAGCAAAAGTGGCGGTA 923

QY 433 AGAAGCTATTTGCTCAGTGCCTGAGTATCATCAGCTC---TGAAAAAGTGGAGAGT 489
DB 924 AAGAAAGAAATCAGCAAGTAGAGACCAATTTCTGCAAACTCCGATCAATATCGGGAAC 983
QY 490 AATTCAGAGCTATGAGCGGTGGGCAACGATGTGTATACATTCAGAAATCTC 549
DB 984 TCATCGCTGACGCTTATGAAAAAGTGGTAAAGCGCGATCACCGCTGAAGAGCTA 1043
QY 550 GAGGTATGAAACAGAACTTGAAGTGTGAGGATGCAATTTGACCGTGTACCTGT 609
DB 1044 AGGCGATGGAAGTGAATAGATGCTAGAGGATGCAATTTGATGAGGATACCTCT 1103
QY 610 CTCATATGATGCTGACAGCAATGAAAAATGTTGTCAGACCTGCAAAACCATTTATCT 669
DB 1104 CCGCTTACTTTGTAACCAACCTGAGAAATGACCGCTCAATTTGATTAACCTTACCTC 1163
QY 670 TAATCAGGATAAAAAGTGTCAAAATCCAGACATTTTGCCACTTGTGAGAGATTG 729
DB 1164 TTTTAACGATAAAAAATCTCTAGCAAGACATTTCTCCGCTACTAGAAAAACA 1223
QY 730 TTAACCAACCGCTCATTTACTCATTTATGCAATGATGATGATGATGATGATGATG 789
DB 1224 TGAAGAGGCAACCGCTTTTATCATGCTGAAGACATTTAGGCGCAACCTTTAACGA 1283
QY 790 CCGTGTCTTGAACAAGTGTGCTACTTCAATGTGTGTCTGCAAGCGCCAGAT 849
DB 1284 CTCATGATGATGATTAATTAAGAGCGCTGTGTAATTCGACGCTTAAACCTCAAGCT 1343
QY 850 TTGATATGCTGTAAGCTATGCTGTAAGACATTTCTATCTTGAAGCTGATGATGATG 909
DB 1344 TTGGGAGCAGGAAAGAAATGCTCAAGACATGCTTTTAAACCGCGCTAAGTCA 1403
QY 910 TTACAGAGATAGAGTGAATTAATTAAGATCTTCAATGACACCGCTTGACAGCTG 969
DB 1404 TTACAGAGATAGAGTGAATTAATTAAGATCTTCAATGACACCGCTTGACAGCTG 969
QY 970 CTAGATTAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAG 1029
DB 1461 CGAAGATGTGATGACAAAGCAACACGATGCTAGATGCAAGGCAATGCAAG 1520
QY 1030 CTATGCTTAACGCTTTGCACTGATTAATGCAATTTGAAGCAATTTGCACTTGTG 1089
DB 1521 ACCTTAAGACAGATCGGCAATTTGAAGCAATTTGAAGCAATTTGAAGCAATTTGA 1580
QY 1090 ACCGTAAAAACTACAGAACGTTTGGCAATTTAGCTGTGTGTGTGTGTGTGTGT 1149
DB 1581 ACAAGAAAAATTTGCAAGAAAGATTTGGCCAACTCTGCGGTGTGTGTGTGTGT 1640
QY 1150 TAGGAGCTCAACAGACAGCTTTAAAGAAATGAAGTTCGATTTGAGATGCTTAA 1209
DB 1641 TGAGGCTCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1700
QY 1210 ATGCTACAGCTCAGCCGTTGAAAGATGCTGTGCTGTGTGTGTGTGTGTGTGT 1269
DB 1701 GCGGCACTTAAGCGCGGTTGAAGAGCAATTTGTGATTTGGGCGGTGCGGCTCAT 1760
QY 1270 CCGTATTGAAAAAGTGAAGAGCTGTGAGCTGAGGCGGATGATGATGATGATGAT 1329
DB 1761 GCGGCGCCCAAAAAGT---GCATTTGAATTTACAGATGATGAAAAAGTGGCTAT 1817
QY 1330 TTGTGCTGTGCTCTGAGAGAGCTGTAGCTTAATTTGCTTAAATGCTGGTACGAAG 1389
DB 1818 TCATCATGTGGCGCCATTAAAGCCCATTTAGCTCAATGCTATGATGATGATGATG 1877
QY 1390 GCTCGTAGTATTGACAAAGTGAAGAACGCCCTGACAGAAACAGATTTTAATGCTGCA 1449
DB 1878 GCGGTGTGTGTGTGATGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1937
QY 1450 CAGGTGATGGGTGTGATGATTAATTAAGAGATCATTTGACCTGTCAAGTAAACGAT 1509
DB 1938 ATGCGAATGATGTGAGATGTTTAAAGAGGCAATTAATGACCTTAAAGTGAAGAGA 1997

Query Match	27.6%	Score 458.6	DB 4	Length 4403765
Best Local Similarity	55.8%	Fred. No. 6,46-124		
Matches 875	Conservative 0	Mismatches 694	Indels 0	Gaps 0
QY 15	ATGGCAAAAGAAATCAATAATTTTCAGCAGATGGCGCTGTCGTCATATGGTCGCGAGTTGAT 74			
Db 530048	atggcaaaagaaatcattcgctacagaaagagcgccgcgcgcctcgagcggggtcgttgac 530107			
QY 75	ATGTAGACGATACCGTCAAGTAACGCTGTGCTCTTAAGCGCGCAATGTTCTTGAA 134			
Db 530108	gcctcgcgcgaatgcgtataaagtgacatttggcccccaaggccgaacgttcgtctgaa 530167			
QY 135	AAAGCTTTGGTGTCTCCCTTAATTAATAAGCGGGTAACCACTTCTTAAGATATCGAA 134			
Db 530168	aagaagttgggtggcccccaacgatacacaagaatggtgtccctcgcgcgaagaatccag 530227			
QY 195	TTGGAAGATCANTTTGAAAAACATGGGAGCAAAATTTGGTGTCTGAAGTGGCTTTAAAC 254			
Db 530228	ctggagatcgcgtcgcgaagaacacgcgcgcgcgtctgtcacaagaagttacgaagaagacc 530287			
QY 255	AATGATATTTGCTGTGATGGAGCAGACTACTCAACAACTTTTGACACAGCAATTTGCAT 314			
Db 530288	gaggaagctgcgcgttgcgcgcgcacccaagccacgcgtgttcgcacagcgcttgcgcg 530347			
QY 315	GAAGCACTAAAAAATGTGACAGCAGAGTCTAATCAATTTGATGTCGGTGGAGGATGGA 374			
Db 530348	gagggcctgcgcgaacgctcgcgcgcgcgcacaccgctcgtctcacaacgcgcgaatcgaa 530407			
QY 375	ACACGACAGCAACAGCTGTGTAAGCCTTGAAACCACTTTCCTCAACCTGTATCTGCAG 434			
Db 530408	aagggcctgcgcgaaggtccacagagacccttcgtcacaagcgccaaagagtgctgagaccag 530467			
QY 435	GAAGCTATGCTCAGGCTCGCTCAGTATCATCAACGCTCTTGAAAAAGTTGGAGAGTATAC 494			

Db 530468 gagcgaattctggcgccaccgagatattccgvcggtgacgaatccatctcgtgacctgctc 530527
OY 495 TCAGAAAGCTAATGAGAGCGCTGTGGGCAACGATGGTGTAATACATCGAAGAAATCTGAGCT 554
Db 530528 gcccgagcgagatgagcaaaagtgaggcaaaagggcgctacacgcctcagggagacccaacc 530587
OY 555 ATGGAACAGAACTTGAAGTGGTTGAAGGCAATGCAATTTACCGTGGTATGCTCA 614
Db 530588 tttaggcgcagcgcgagctcaccgaggtatgctgctcagaaggcctacactccgggg 530647
OY 615 TACATGCTGCACAGCAATGAAAAATATGTTGTCACACTTAAACCTTATTTCTTAATC 674
Db 530648 tactctgtgcgcgaccgccgagcgctcaagagagcggtccctggagagccccaactccctgcgt 530707
OY 675 ACGGATAAAAAATGTGCAAAATCCAGACATTTTGGCACTACTTGAAGAAATGTTCTTAAA 734
Db 530708 gtccagctccaaaggtgtccacgtgtcacaagatctgtctgcgctgtctcgagaaggtacatcga 530767
OY 735 ACGAACGGTTCATATCTACTTATTTTCAGATATGTGATGTGGAAGCACTTCCAAACCTT 794
Db 530768 gccggttaagcgcgtgtgtatctatcgcgaggaagtcgagggcgagggcgctgtccaaacctg 530827
OY 795 GCTCTGAACAGATTCGTGCGTACTTTCAGTGGTGGTGTCTGTCNAAGCCGCAAGATTGGT 854
Db 530828 gtctcacaagaatcccgccgacccctcaagtcggtggtggtcgaaggtcccggtctgcgc 530887
OY 855 GATGCTGTAAAGCTATGCTTGAAGACATTGCTATTGACAGGTGTCAGTACGATTATCA 914
Db 530888 gaccgcgcgaagcgatctgtccagagataatgcatctcaccgtgcgcggtgcaggtgtatcagc 530947
OY 915 GAGGATCTAGGACTTGAATTTAAAGATGCTACAAATACAGCCCTTGAGACAGCTGCTAAG 974
Db 530948 gaagaggtctgcgcctcgaacgcgtgagaaagcccgacctgtcgtctcgtgaaagggcccgcaa 531007
OY 975 ATTAACGTTGATTAAGATAGACACGATTAATTTGTAAGTTTACGAAATTCAGAACGCTATT 1034
Db 531008 gtccgtgtacccaagagagacccaactgtctgaaggcgccgggtgacaaccgaagccatc 531067
OY 1035 GCTAACCGTATTTGCACTGATTAAATTCGCAATTGAAACAAACTTTCGACTTGGACCGT 1094
Db 531068 gccgcgacgaggtgcccagatctcgcgcagagatctgaagaacgactccgaataagccgt 531127
OY 1095 GAAAAACTCAAGAGCACTGTTTGGCCAAATTTAGCGTGGGTGATGCTGTTTCAAAAGTAGA 1154
Db 531128 gagaagctctgcagggagcgctgtgcacaagctcggccgggtgtgtctcggtgtgatacaagccggt 531187
OY 1155 GCTCCAAACAGACAGCTTTAAAGAAATGAATCTTCGATGTGAGATGCTTAATGCT 1214
Db 531188 gccgcacaacgaggtctgaactcaagaagcgcaacgcacatcagagatgtcggttccaa 531247
OY 1215 ACACGTGACGCCGTGTAAGAAGATGATTCGTGGTGGTGGAGACAGACTTATTAACGTT 1274
Db 531248 gccaagcgccgcgtctcgaggaggcatalcgtccgcggttggtggtgagcgtctgttcaagcg 531307
OY 1275 ATTGAAAAAGTAGACGCTGTAAGCTTGAGGGCGAGATGCTACTGAGAGCTAAATTTG 1334
Db 531308 gccccgacctcggcgcgctctgaagctcgaagggcgagggcgacccggcgccaactcgtg 531367
OY 1335 CTTCCTGCTGTAGAAAGCGCTGTACGTCMAATTTGCTTAAATGCTGGGTACGAAGGCTCC 1394
Db 531368 aaggtgtggtcggtgagggcccgctgaagacagatcgccttcaactccgggtctgagcgcg 531427
OY 1395 GTAGTATTATGCAAGTTGAAAAACACCCCTGAGAGAACAGGATTTAATGCTGCACAGCT 1454
Db 531428 gtgtgtggtcgaggaaggtgtgccaactcgcgcgtctgcacagatctgaacgctcaagcggc 531487
OY 1455 GAGTGGGTGATTAAGATTAACAGGAATCATTTGACCTGTCAAAAGTAAACGATCAAGC 1514
Db 531488 gtctcagagatctcgcgcgtccggcggtctcgaaccgggtcaaggtgacccgttccggc 531547
OY 1515 CTTCAAAATGAGCTTCTAGTACTAGTCTTATTTTGGACACAAACGATTTGTTGCTAAT 1574

Wed Nov 14 11:59:07 2001

us-09-001-737-7.rni

Page 11

Db 531548 ctgcagatagtcggcgctccatctgcggcgctcttctctgaccacccgagagcgctgttcgcgac 531607
QY 1575 AAACCTGAA 1583
|||
Db 531608 aagccggaa 531616
|||

```

RESULT 10
US-09-103840A-1
Sequence 1, Application US/09103840A
Patent No. 6294328
GENERAL INFORMATION:
APPLICANT: FLEISCHMAN, Robert D.
APPLICANT: WHITE, Owen R.
APPLICANT: FRASER, Claire M.
APPLICANT: VENTER, John C.
TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
FILE REFERENCE: 24366-20007 00
CURRENT APPLICATION NUMBER: US/09/103,840A
CURRENT FILING DATE: 1998-06-24
NUMBER OF SEQ ID NOS: 2
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 4411529
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
OTHER INFORMATION: H37Rv
US-09-103840A-1

```

Query Match	Similarity	27.6%	Score 458.6	DB 4	Length 4411529
Best Local Similarity	55.8%	Pred. No. 6,4e-124			
Matches 873	Conservative 0	Mismatches 694	Indels 0	Gaps 0	
15	ATGGCAAAAGAAATCAAAATTTTCACGAGATCGGGCTCGTCGCAATGGTGGCGGAGTTGAT	74			
Db 528606	atggcacaagaacattgtgtacgaagaaggccgctcgctcgaggggcttgatc	528665			
QY	ATGTTAGACAGATACCCCTCAAAAGTAACGCTTGCTCTTAAAGGCGCAATGTGTTCTTGA	134			
Db 528666	gcccccgccgctcggtgaaaggctgacatttggcccccaaggccgcaacgtcgtccttgaa	528725			
QY	AAAGCTTTGGTCTCCCTTAATTAATACGCGGTATCACTTATCTTAAAGATGCA	134			
Db 528726	aagaaagtgggtggcccccaagctcaacaagaatgtgtgtcctatcgcaagaagatcga	528785			
QY	TTAGAAATCATCTTTTGGAAAAACATGGGACCAAAATTTGCTGTCTGAAGTGCTTTAAACC	234			
Db 528786	cggagggatctgcgtacgaagaagaatctggcgcgagctgtgtcaaaagatgtgacaagaagac	528845			
QY	AATGATATATGCTGGTATGAGACACTCTCAACACACTTTTGTGACCAAGCAACGATTTGCAT	314			
Db 528846	gatgacgtgcgcgggtgaacgagcccaacgacggcccaacgctgctgtgcccbaagcgttggctgc	528905			
QY	GAAGGACTAAAAAATGTGACACAGAGTCTATCAATTGTGTATCCGTGAGGACTTGA	374			
Db 528906	gagggcctctgcgaacgtcgcgcgcgcgaacccgcgtctcctcaaacgcgcatcgaa	528965			
QY	ACAGCAACACACACACTGTTTAACCTTTGAACCCATTGTCTCAACACTGTATCTGGAG	434			
Db 528966	aaggcgcgtgagaagaagctcccgaaagccctgtctcaaggcgccaaaggaagctcgagaacaag	529025			
QY	GAAGCTATTGCTAGAGTGCCTGCAGTATCATCAACGCTGTGAAAAAGTTGGAGATATATC	494			
Db 529026	gagaagaattctgcgcacacgaacgaaatcttcgcgcggtgtacaaatgcatcgtgaaacctgat	529085			
QY	TCAGAACTATGAGAGGTGTGGGCAACATGATGTGATTAACATGGAAGATATTCGAGCT	554			
Db 529086	gcgcagggcgtgtgacaagaatgtggcaagaaggcgtcatcaaccgtctgaagatccaacaac	529145			
QY	ATGAAACACAGACTGAAGTGGTTGAAGCATGAATTTGACACGATGTTACTCTTCA	614			

Db 529166 ttgsgtgcgtacgtcgtagctccacgcgaaggtatctgcgtctcgcacaaaggtactacatctcggg 529205

QY 615 TACATGGTCAAGACATGAAAAATGGTTGGACAGCTTGA AAAACCATTTATCTTAATC 674

Db 529206 tactctgtgacgcaccccgagagcgtcaagagagcggtcctctggagagacccctacatctcgtg 529265

QY 675 ACGGATTTAAAAATGTGCAACCAACTCCAGACATTTTGGCACTACTGGAGAAAGTTCTTAAA 724

Db 529266 gtcaagctccaaggtgtccacgtcgtcaaggtatctgcgtccgtctctcgagaaaggtatcorga 529325

QY 735 ACACAACCGTGCATTAATCTCATTTATTGAGATGATGTGGATGTGGAAGCACTTCCAAACCTT 794

Db 529326 gcccgttaagccggtcgtcgtatcatcgcgcgaagagacgtcgaagggcgaagcgctgtccacactg 529385

QY 795 GTCCTTGACAAGATTGCTGGTGNATCTTCAATGATGGTTGCTGTGCTGAAGCCCCAGATTTTGGT 854

Db 529386 gtctcaacaagatctccgcgcacctcaagttcgtgtggtcggtcaaggtccgcgtctcgcg 529445

QY 855 GATGCGTCGTAAGCGATATGCTTGAAGACATTTGCTATCTTACAGGTGTGACAGTATTAACA 914

Db 529446 gaccgcgaacgaagcgatcgtctccgaagaaababggtccatctcaacgggtggtcgaagtatcagc 529505

QY 915 GAGAGCTTAGAGACTTGAATTAAAGATGCTAACATGACAGCCCTTGGAGACGCTGCTTAAG 974

Db 529506 gaagaaagtcgcgcctcagctcagttgaaacgcgcacactctgcgtctagcaagccccgaag 529565

QY 975 ATTACAGTTGATTAAGATATGACACAGTAAATTGTTGAAGGTTTCAGAAAGTTTCAGACATTT 1034

Db 529566 gtctgtgtaccaaaggaagagacacacatctgtgaggggcgcgggtgataccgaagccatc 529625

QY 1035 GCTAACCGATATTGACATATTAATGCCAATTGAAAAACAACACTTCTGACTTTGAACCGT 1094

Db 529626 gccggacgaaggtggcccaatccgcgaagagatctgaagaaagagactccgatactaaagccgt 529685

QY 1095 GAAAAACTACAAGAAACGTTTGGCAAAATTGAGCTGTGGTGTAGCTGATTAACAAAGTAGCA 1154

Db 529686 gaagaactcgtcagagcggtctgccaagcttgcgcggtgtctgcggtgatacgaagccgt 529745

QY 1155 GCTCCACACGAGACAGCTTTAAAAGAAATGAACCTTCGCATTTGAGGATGCTTAATAATGCT 1214

Db 529746 ggcgcacacggaggtcgaactcaaggaagcgcaagcacaagcatcgaagatcgaagatgcgtacat 529805

QY 1215 AACAAGTCAAGCCGTTGAAGAAAGTATGTCGTGCTGTGGTGAACAAGCACTTATTAACGGTT 1274

Db 529806 gccaaaggccgcgtctcgaagagagatctgtccgcggtgggggtgtgacgcgtgttgaacag 529865

QY 1275 ATTGAAAAAGTAGCAAGCTCTTGAAGCTTGAAGCGATAGTACGTACGTACGACATTTGG 1334

Db 529866 gccccgaacccttgagagcgtgaagctcgaaggtcggaagggcgacccggtgcacaacatctgt 529925

QY 1335 CTTTCGTGCTCTGAAGAGCCGTCGTAACGTCGTAATTTGCTTTAAATGCTGGGTACGAAGCTCC 1394

Db 529926 aaggtgtgcgtcgtgaaggtcccgctgaagcagaatctgcactcaactccgggtcgtggccgggc 529985

QY 1395 GTAGTTATTGACAAAGTGA AAAACACGCCCTGCAGGAAACAGATTTAATGCTGCGACAGGT 1454

Db 529986 gtgtgtgcccgaagaaggtgtgcacaactgcgcggtcgcacagatcgaagcgtctcagacggt 530045

QY 1455 GAGTGGTGTATATGATATTA AAAAGAAATCATTTGACACCTGTCCAAAGTAACAGATCAGG 1514

Db 530046 gtatacgaagatctgcgtcgtcgcggcgtgtcgtgcacccggtgcaaggtgtgacccgttcggg 530105

QY 1515 CTTCAAAATGCAGCTTCTGTAGCTAATCTTAATTTGACACAGAAAGCATGTTGCTTAAT 1574

Db 530106 ctgacgaagaaggtgcctccacacggtgggtctgtccctgcacacgaaggtcgtctgttcggac 530165

QY 1575 AAACTGAA 1583

Db 530166 aagccggaa 530174

RESULT 11
US-08-997-080-159

Sequence 159, Application US/08997080
Patent No. 5968534
GENERAL INFORMATION:
APPLICANT: WATSON, JAMES D.
APPLICANT: TAN, PAUL L.U.
TITLE OF INVENTION: METHODS AND COMPOUNDS FOR THE TREATMENT OF IMMUNOLOGICALLY-
NUMBER OF SEQUENCES: 194
CORRESPONDENCE ADDRESS:
ADDRESSEE: Law Offices of Ann W. Speckman
STREET: 2601 Elliott Avenue, Suite 4185
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98121
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/997,080
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Sleath, Janet
REGISTRATION NUMBER: 37,007
REFERENCE/DOCKET NUMBER: 11000,1007
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-269-0565
TELEFAX: 206-269-0563
TELEX:
INFORMATION FOR SEQ ID NO: 159:
SEQUENCE CHARACTERISTICS:
LENGTH: 1626 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-997-080-159

Query Match 26.9%; Score 446.8; DB 2; Length 1626;
Best Local Similarity 54.9%; Pred. No. 2,5e-122;
Matches 880; Conservative 0; Mismatches 722; Indels 0; Gaps 0;

QY 15 ATGGCAAAAGAAATCAAAATTTTCAGCAGATGGGGTGTCTCCCATGGTGGGGAGTGTAT 74
DB 1 ATGGCAAGAACATTTGCGTATGACCAAGAGGCCCGCGCTGCTCAAGCGGGGCTTCAAC 60
QY 75 ATGTTAGCAGATACCTGCAAGTAAAGCTTGGTCTTAAGAGCGGCAATGTTGTTGAA 134
DB 61 GCCCTCCGACAGCCCGTAAAGGTGACGTTGGGCCCGAAGGGTCCGCAACGCTGCTGTGAG 120
QY 135 AAAGCTTTGGTTCCTCCCTTAATTAATGACGGGGTAAACATGCTTAAAGATTTGAA 194
DB 121 AAAGAGTGGGGCGCCCGCAGATCAACCAAGATGTGTGTCATGCCCAAGAGATTCAG 180
QY 195 TTAAAGATCATTTTGAAGAAACATGGAGCAAAATTTGTGTCAAGTGGCTTTAAACC 254
DB 181 CTGGAGACCCGTAAGCAAGATGCGCTAGCTGTCAAAAGAGTCCCAAGAAAGACC 240
QY 235 AATGATATGCTGTGTGATGGAGCAGTACTCAACAGTTTGAACACCACTTGTTCAT 314
DB 241 GACGACGTCGGGGCGAGCGACACACCGCCAGCGTGTCTGCTAGGCTGTGTTGCC 300
QY 315 GAAGACTTAAAAATGTGACAGAGTGTCAATTCATTTGTTGCTGAGAGCAATTGAA 374
DB 301 GAAGGCTGGCGCAAGCTGCAAGCGGGCGCAACCGCTGCGCTCAAGGTTGGCATCGAG 360
QY 375 ACAGCAACGCAACAGCTGTTGAAACCTTGAAGCCATTGCTCAACCTATCTGCGCAAG 434

DB 361 AAGCTCTCAGAGCTGTCAACCAAGTCGCTGCTGAAGTCGCCAAGAGAGTGCAGACCAAG 420
QY 435 GAAGCTATTCCTCAGAGCTGTGAGTATATCATACGCTCTGAAAAAGTTGGAGATATATC 494
DB 421 GAGAGATTTCTCCACCCCGGCGAATTCGCCGGCGACACCCGATTCGGCGAGCTATC 480
QY 495 TCAGACTATTTGAGCGGTGGCAACGATGGTGTGATTAACATGCAAGATTTGAGAGT 554
DB 481 GCCAGGCAATGACCAAGATGCGCAGACAGAGGTGTATCACTGCTGAGAGTGAACACC 540
QY 555 ATGGAACACAACTTAAGTGTGTAAGGATGACCAATTTGACCGTGTACTGTCTCA 614
DB 541 TTGCGCTGAGCTCAGCTCAACGAGGTATGCGCTTCCCAAGGGCTACATCTCGGCT 600
QY 615 TACATGTCACAGACAATGAATAATGTTGAGACGCTGAAACCACTTATTTCTTAATC 674
DB 601 TACTTCTGACGACGCGAGGCGCAGAGAACCCGCTCGAGAGATCCCTACATCTGCTG 660
QY 675 ACGGATAAAAATGTGCAACATCCCAAGACATTTGGCACTACTTGAAGAGTTCTTAA 734
DB 661 GTCAGCTCCAGGTGTGACGCTCAAGAGATGTGCTCCGCTGCTGGAAGAGTCAATCCG 720
QY 735 ACNACCGTCACTTACTCATTTATGCAATGATGTGATGTGAGACACTTCCACCTT 794
DB 721 GCCGCAAGCGCGTGTGATCATGCGCAGAGACGTGAGGGCGAGGCCCTGTCCACGCTG 780
QY 795 GCTTGAACAAATTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 854
DB 781 GTGTCAACAAATTCGCGCGACCTTCAAGTCCGCTGCTGCAAGGCTTCGGGGCTTCCG 840
QY 855 GATGTGTAAAGCTATGCTTGAAGACATTTGTTGACAGTGTGATGATGATTTACA 914
DB 841 GACCGCGCAAGCGCATGCTGAGAGATGCGCATGCTGCTGCTGCTGCTGCTGCTGCTG 900
QY 915 GAGATCTGAGGATTAATTAAGATGCTCAATGACACCTTGGAGAGCTGCTAG 974
DB 901 GAAGAGTGGGTGTGCTGCTGAGACCGCGACGCTGCTGCTGCTGCTGCTGCTGCTG 960
QY 975 ATTACAGTTGATTAAGATGACACAGTAATTTGTAAGAGTTTCAAGACCTATT 1034
DB 961 GTGTGCTGACCAAGAGAGAGACACACATCTCCAGGGGCTGCGGATTCGATCCATC 1020
QY 1035 GCTACCGTATTTGCACTGATTAATGCAATTTAATCAACCAACTTCACTTTAGCT 1094
DB 1021 GCCGGCGGGGTGTGCTGATGATCCGCGCGAGATGAGAACGACCTCGACCTACGACCG 1080
QY 1095 GAAAACTACAAAGACGTTTGGCGCAATTTAGCTGTGTGCTGCTGTTATCAAGTAGA 1154
DB 1081 GAGAGCTGACAGAGCGGCTGCGCAAGCTGCGCGCTGCTGCTGCTGCTGCTGCTGCTG 1140
QY 1155 GCTCAACAGACAGCTTTTAAAGAAATGCAATTTGCTGATGAGATGCTTAAATGCT 1214
DB 1141 GCTGCCACGAGAGTGTGAGCTCAAGAGGCAAGACCGGATGAGAGCCGCTCGGCAAC 1200
QY 1215 ACAGTGCAGCGGTTGAAGAGATGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1274
DB 1201 GCAAGAGCTGCTGCTGAAAGAGGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1260
QY 1275 ATTGAAGAAATGACGCTTTGACCTTGAGGCGAGATGATGCTACTGAGAGTAAATG 1334
DB 1261 GCTCTGCTGCTGAGACCTGCGCTGAGCGGAGAGAGCAACCGGTGCTCAACATGCTC 1320
QY 1335 CTTCGTGCTCTGAAGACCTGTACGTCATTAATGCTTAAATGCTGTGTGTGTGTGTGT 1394
DB 1321 CCGGTGGCGCTGTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1380
QY 1395 GTAGTTATTGACAACTGAAAAACAGCCCTGACAGAAAGATTTAATGCTGCAACAGT 1454
DB 1381 GTCTGCTGCGAAGAGTGTCCCACTGCGCGGCTGACAGGCTCAACGCGGACGAGT 1440
QY 1455 GAGTGGTGTATGATTAATTAAGAGATGATGATGATGATGATGATGATGATGATGATG 1514
DB 1441 GAGTACGAGAGACCTGCTCAAGCGCGCTGCGGACCCGCTGAAGATCAACCGCTGCGG 1500


```

Db 901 GAAAGACTCGGGCTGTCCTTGAGACAGCCGACGCTCCTGCTGGGCGCCAGCCGCGCAAG 960
Oy 975 ATTACATTTATTAATATGACATATTTTGTAGAGTTGAGAAAGTATG 1034
Db 961 GTCTGCTCCACAGAGACAGACACCATGCTGAGGCGTCCGCGGCGATTCGCTGACATC 1020
Oy 1035 GCTAACCGTATTCAGTATTAATGCAATTTAGAAACAACACTTCTGACTTTCAGCGT 1094
Db 1021 GCCGCGCGGGTGCATGATCCGCGCGAGATGCAAGAACGACATCCGATCAGACCCG 1080
Oy 1095 GAAAACTACAGAAAGCTTTGGGAAATTTAGCTGTGTAGTGTATTAAGAGAGA 1154
Db 1081 GAGAAAGCTGAGAGAGGCTTGCCAAAGTGGCGCGGTGTTCGGTGTATCAAGCCGGA 1140
Oy 1155 GCTCCACAGACAGACCTTTAAAGAAATGAACCTGCAATGAGATGCTGTAATGCT 1214
Db 1141 GCTCCACAGAGTGTGAGCTCAAGAGCGCAAGCAGCATGAGACCGCTCGCGCAAC 1200
Oy 1215 ACAGTGCAGCGCTGGAAGAGTATGCTGCTGTGTGTGGAACACACTTTATACGTT 1274
Db 1201 GCGAAGCTGCTGCTGAGAGAGGCAATGCTGCGCGGTGGCGCTGCTGCTGCAAGTCG 1260
Oy 1275 ATTGAAAAAGTACAGACTTTTGTAGCTTGAGGCGAGATGCTACTGAGCTAATGTG 1334
Db 1261 GCTCTGCGCTGAGAGACTGCGGCTGACGCGGCGAGAGCGCACCGGTGCCAATGCTC 1320
Oy 1335 CTTGCTGCTGAGAAAGAGCTGTAGTCAATTTGCTTAATGCTGGTGAAGAGCTCC 1394
Db 1321 CGCGTGGCGCTGCGCTGCTGCTCAAGACATGCTCTTCAACGCGCGCTGAGAGCGCGC 1380
Oy 1395 GTAGTATTGACAGTGTAAAAACAGCCCTGACAGAAACAGATTAAATCTCAACAGGT 1454
Db 1381 GTGCTGCGCAGAGAGTGTCCAACTGCGCGGCTGACGCGCTCAACCGCGACCGGT 1440
Oy 1455 GAGTGGTGTATGATTAATAAAGAAATCATTTGACCTGTCAAGTAACTAAGTACAGTACAG 1514
Db 1441 GAGTACAGAGAGCTCTCAAGAGCGCGGCTGCGCGAGTGAAGTCAACCGCTCGCGG 1500
Oy 1515 CTTCAAAATGACAGCTTGTGTAGTATCTTATTTGACAAAGACAGATTGTTCTAT 1574
Db 1501 CTGCAAAAGCGCGCTCATGCGCGCTGCTCTCAACAGCAGAGCGCTGCTCGCGAC 1560
Oy 1575 AAACGTAACAGCACTACGCGCGCGCAAGCAATGCAAGCAAGT 1616
Db 1561 AAGCGGAGAAAGCGCTCCGCAACCGCGGCGGAGCCGACCGGT 1602

```

```

RESULT 14
US-08-997-080-113
Sequence 113, Application US/08997080
Patent No. 5968524
GENERAL INFORMATION:
APPLICANT: WATSON, JAMES D.
APPLICANT: TAN, PAUL L.J.
TITLE OF INVENTION: METHODS AND COMPOUNDS FOR THE TREATMENT OF IMMUNOLOGICALLY-
NUMBER OF SEQUENCES: 194
CORRESPONDENCE ADDRESS:
ADDRESSEE: Law Offices of Ann W. Speckman
STREET: 2601 Elliott Avenue, Suite 4185
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98121
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/997,080
CLASSIFICATION:

```

```

PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Sleath, Janet
REGISTRATION NUMBER: 37,007
REFERENCE/DOCKET NUMBER: 11000.1007
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-269-0565
TELEFAX: 206-269-0563
TELEX:
INFORMATION FOR SEQ ID NO: 113:
SEQUENCE CHARACTERISTICS:
LENGTH: 1569 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
US-08-997-080-113

```

```

Query Match 26.8%; Score 444.8; DB 2; Length 1569;
Best Local Similarity 55.2%; Pred. No. 9.4e-122;
Matches 866; Conservative 0; Mismatches 702; Indels 0; Gaps 0;

```

```

Oy 15 ATGGCAAAAGAAATCAATTTTCAGACAGATGCCGCTGCTCCATGCTGCGCGAGTTGAT 74
Db 1 ATGGCAAAAGAAATCAATTTTCAGACAGATGCCGCTGCTCCATGCTGCGCGAGTTGAT 60
Oy 75 ATGTGACAGATACCGTCAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAG 134
Db 61 GCCCTGACAGACCGCTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAG 120
Oy 135 AAGGCTTTGTTCCCTTAATTAATGAGAGGTTAACTATGCTAAAGTAAAGTAAAGTAAAG 194
Db 121 AAGAGTGGGGGCCCCCAGCATCAACAGATGTTGTTCCATGCTGCGCAAGAGATGAG 180
Oy 195 TTGAAGATCATTTTGAAGAAATGAGCAAAATTTGTTGTAAGTGGTTCTTAAAGC 254
Db 181 CTGAGAGACCGCTACAGAAAGATGAGGCTGACCTGCTCAAGAGTGTGCCAAGAGAGC 240
Oy 255 AATGATATGCGTGATGAGAGACAGTACAGCAAGTATTGACCAAGCATTTGTCAT 314
Db 241 GAGAGCTGCGGGGAGGAGGAGCAGCAGCCAGCCGCTGCTGCTGCTGCTGCTGCTGCTG 300
Oy 315 GAAGACTAAAAATGTGACAGAGGTGCTAATCAATTGATTCGCTGAGAGCATGAA 374
Db 301 GAAGGCTGCGCAAGCTGAGCGCGCGCCACCCGCTGCGCTCAACGCTGAGCATGAG 360
Oy 375 ACAGCAAGCAAGCAAGCTGTTGAAGCCTTGAAGCATTTGTCAAACCTGATTCGCAAG 434
Db 361 AAGGCTGTGAGGCTGTACCACTGCTGCTGAGAGTGGCCAGAGAGTGTGAGAGCAAG 420
Oy 435 GAAGCTATTTGCTCAGTGTGCTGAGTATCATACGCTGTGAAGAAAGTTGAGAGTATATC 494
Db 421 GACCAATATTTCTGACCGCGCGCATTTCCGCGGAGACACCAAGATGAGGAGCATATC 480
Oy 495 TCAGAGCTATGAGACCGTGGGCAACGATGATGATGATGATGATGATGATGATGATGATG 554
Db 481 GCGGAGCGCATGAGAGAGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
Oy 555 ATGGAACAGAACTTGAAGTGTGTTGAAGCATGCAATTTGACCGGTGTTACTGTCTCAA 614
Db 541 TTGGGCTGTGAGCTGAGCTACCGAGGATGATGATGATGATGATGATGATGATGATGATG 600
Oy 615 TACATGCTACAGCAATGAAAAAAGTTGAGACCTTGAAGAAACCATTAATCTTAATC 674
Db 601 TACTTGTGACCGAGCGAGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660
Oy 675 ACGGATAAAAAGTCAAAACATCCAAAGCATTTTGGCACTACTACTTGAAGAGTTCTTAA 734
Db 661 GTGAGCTCAAGGTGTGAGAGTGTGCTCCGCTGCTGAGAGAGAGAGAGAGAGAGAGAG 720

```

```

QY 725. ACAGACGTCATCTACTCTATTTGACATGATGTGATGTAAGCACTTCCAACTT 794
  || || || || || || || || || || || || || || || || || || || || ||
Db 721. GCCGGCAAGCCGCTGCTGTATCTCCGAGAGAGTGGAGAGCCCTCTCCACGCTG 780
QY 795. GCTTGAACAAGATTGCTGATCTTCAATGCTGCTGCTCAAAAGCCCGAGATTGGT 854
  || || || || || || || || || || || || || || || || || || || || ||
Db 781. GTGGTCACAAAGATCCGGGACCTTCATGATCGCTGCGCTCAAGGCTCCGGCTTGGT 840
QY 855. GATGCTGTAAGCTATGCTGTAAGATGCTATCTTACAGAGTGGTACAGTATTA 914
  || || || || || || || || || || || || || || || || || || || || ||
Db 841. GACCGCCGCAAGCCGATGCTGACAGACATGCGCATCTTCAGGCTGGTCAAGTCTAGC 900
QY 915. GAGATCTAGGACTTGAATTAAGATGCTACATGACACCCCTTGACAGCTGTAA 974
  || || || || || || || || || || || || || || || || || || || || ||
Db 901. GAAAGATCGGCTGCTCCCTGAGACCCGAGCTCTCCCTCTGGGCAAGCCCGAAG 960
QY 975. ATTACAGTTGATTAAGATGACAGATGATGTAAGTTCAGAACTTCAAGACTATT 1034
  || || || || || || || || || || || || || || || || || || || || ||
Db 961. GTCGTGTCACCAAGAGAGACACCATCTGAGAGGCTCGGGGATTCGATCGCATC 1020
QY 1035. GCTAACCGTATGCACTGATTAATTCGCAATTAAGAAACAACTTCTGACTTGAACGT 1094
  || || || || || || || || || || || || || || || || || || || || ||
Db 1021. GCGCGCCGGGTGCTCAATCCGCGCGAGATGAGAACAGAGCTCGACTACGACCG 1080
QY 1095. GAAAACTACAGAACTTTGCGCAATTGCTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1154
  || || || || || || || || || || || || || || || || || || || || ||
Db 1081. GAGAACCTGACAGAGACCGCTGCGCAAGCTGGCCGCGGTGGTGGTGGTGGTGGTGGT 1140
QY 1155. GCTCCAAAGAGACAGCTTTAAAGAAATGAATCTTCGATGAGATGCTCTAAATGCT 1214
  || || || || || || || || || || || || || || || || || || || || ||
Db 1141. GCTGCCACGAGGTGAGACTCAAGAGAGCGAACACCGCATCGAGAGACCGCGCCGCAAC 1200
QY 1215. ACACGTGACGCGTGAAGAGATGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1274
  || || || || || || || || || || || || || || || || || || || || ||
Db 1201. GCGAAGGCTGCGCTGAAGAGGCGATCGCGCGGTGGCGCGCTGCTGCTGCAAGTGG 1260
QY 1275. ATTGAAAAGTAGACGCTCTGAGCTTGAAGCGCGATGATGCTACTGAGACGTAACTTGTG 1334
  || || || || || || || || || || || || || || || || || || || || ||
Db 1261. GCTCCTGCGCTGAGACGCTGCGCTGAGACGCGCGAGCGCGCTGCGCAACATCGTC 1320
QY 1335. CTTGCTGCTTAGAAGACCTGTAACCTCAATTCCTTAATTCCTGGGTACGAAGGCTCC 1394
  || || || || || || || || || || || || || || || || || || || || ||
Db 1321. CCGGTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1380
QY 1395. GTAGTATTGACAGTTGAAAACACCCCTGAGAGACAGATTTAATGCTGCAACAGGT 1454
  || || || || || || || || || || || || || || || || || || || || ||
Db 1381. GTCTGTCGCGAGAGAGTGTCAACCTGCGCGGGGTCAAGGCTCAACCGCGGACCGGT 1440
QY 1455. GAGTGGTGTATGATTAATAACAGAAATCATATGACCTGTCAAAAGTAACAGATCAGC 1514
  || || || || || || || || || || || || || || || || || || || || ||
Db 1441. GAGTACGAGACCTGCTCAAGCGCGCGCTGCGCGCGGTGAAGGTCAACCGCTGCGCG 1500
QY 1515. CTTCAAAATGAGCTTCTGAGCTAGTCTTAATTTGACACACAGACATGTTCTTAAT 1574
  || || || || || || || || || || || || || || || || || || || || ||
Db 1501. CTGGAGAAAGCGGGGTCTCATCGGCTCTGTTCTCAACCGAGGCGCTGCTGCGCGAC 1560
QY 1575. AAACCTGA 1582
  || || || || || || || || || || || || || || || || || || || || ||
Db 1561. AAGCGGGA 1568
  || || || || || || || || || || || || || || || || || || || || ||

```

```

RESULT 15
US-08-987-362-113
; Sequence 113. Application US/08997362
; Patent No. 5985287
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Hiya, Jun
; APPLICANT: Visser, Elizabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Scott, Linda
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR

```

```

; TITLE OF INVENTION: TREATMENT AND DIAGNOSIS OF MYCOBACTERIAL INFECTIONS
; NUMBER OF SEQUENCES: 194
; CORRESPONDENCE ADDRESS:
; ADDRESS: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/997.362
; FILING DATE:
; CLASSIFICATION:
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: U.S. Patent Application No. 5985287 08/073.970
; FILING DATE: June 12, 1997
; APPLICATION NUMBER: U.S. Patent Application No. 5985287 08/075.347
; FILING DATE: August 29, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1002c2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 113:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1569 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; US-08-997-362-113

```

```

Query Match 26.8%; Score 444.8; DB 2; Length 1569;
Best Local Similarity 55.2%; Pred. No. 9.4e-122;
Matches 866; Conservative 0; Mismatches 702; Indels 0; Gaps 0;

```

```

QY 15. ATGGCAAAAGAAATCAATTTTACAGAGATGCGGCTGCTGCCATGCTGCGGAGTGTAT 74
  || || || || || || || || || || || || || || || || || || || || ||
Db 1. ATGGCCAAAGCAATTCGTATGACAGAGAGCCCGCGTGGCTGAGCGGGGCTCAAC 60
QY 75. ATGTAGCAGATACCGTCAAGATACCTTGGTCTTAAAGGGGCAATGTTCTTGA 134
  || || || || || || || || || || || || || || || || || || || || ||
Db 61. GCCCTGAGAGCGCGCTAAAGGTGACGTGGGCCCAAGGGGTGCAACGTGCTGAG 120
QY 135. AAAGCTTTGCTTCCCTTAATTAATGACGGGGTAACCATTTGCTAAAGAGATGAA 194
  || || || || || || || || || || || || || || || || || || || || ||
Db 121. AAGAAGTGGGGGCCCCAGATACCAAGAGATGCTGCTCATGCGCCAAAGATGAG 180
QY 195. TTGAAGATCATTTTGAAGAAATGAGAGCAAAATTTGCTGTAAGAGCTTTAAACC 254
  || || || || || || || || || || || || || || || || || || || || ||
Db 181. CTGAGAGACCGGTACGAGAAAGATGGGCTGACCTGCTCAAAAGAGTGGCCAAAGACC 240
QY 255. AATGATATTGCTGTGATGAGGACGACACTGCAACAGTTTGAACAAGCATTTGTCAT 314
  || || || || || || || || || || || || || || || || || || || || ||
Db 241. GAGGAGCTGCGGGGAGGAGGACCAACAGCCGACGCTGCTGCTGCTGCTGCTGCTG 300
QY 315. GAAGGACTAAATAATGACAGAGAGGTGCTAATTCATATGTAATCGCTGAGGATTTGA 374
  || || || || || || || || || || || || || || || || || || || || ||
Db 301. GAAGGCTGCGGACGCTGAGCGGGGCGCAACCGCTGCGCTCAACCGTGGCATGAG 360
QY 375. ACAGCAAGACAGACAGCTGTTGAAGCCTTGAAGAGCATTTGCTCAACGTATGCGAAG 434
  || || || || || || || || || || || || || || || || || || || || ||
Db 361. AAGGCTGTGAGGCTGTACACCAAGTGCCTGTAAGTGGCGCAAGAGGTGAGNCCAG 420

```


OY 435 GAACTATTGCTCAGTCCGCTGCAGATCATCACGCTCTGAAAAAGTGGAGATATATC 494
DB 421 GAGCAGATTTCCTCCACCACCGGGGATTTCCCGCGCCGACCCCGAGATCGGCGATCATC 480
OY 495 TCAGAACCTATGAGCGGTGGGCAACGATGGTGTGATTACCATCGAAGAAATCTGAGGT 554
DB 451 GCCGAGCGCATGGACAAGGTGCGGCAACGAGGTGTGATCATCACCGTCGAGAGGTGAACACC 540
OY 555 ATGGAACACAGAACTTGAAGTGGTGAAGGATGCAATTGACCGGTGTTACTCTCAA 614
DB 541 TTGCGCCCTGCAAGCTTCAGAGCTCACCGAGGGTATGCGCTTCGACAAAGGCTCATCTCGGCT 600
OY 615 TACATGGTCAACAGCAATGAAAAATGGTTCAGACCTTGAAACCATTTATCTTATATC 674
DB 601 TACTTCGTGACCCAGCCGCGAGCGCCGAGAGGCCGTCGAGAGATCCCTCATCTCTGCTG 660
OY 675 ACGGATAAAAAGTGTCAAAACATCCAGACATTTTGCACACTTGTAGAGAACTTTAAA 734
DB 661 GTCAGCTCCAGAGGTGCGACCGTCAGAGATCTGCTCCGCTGCTGAGAAAGTCAATCCAG 720
OY 735 ACCAACCGTCATTACTCATTTATTCAGATGATGGATGGATGAGCACTTCCAAACCCCT 794
DB 721 GCCGCGAACGCCGCTGATTCGCGAGAGACGTGAGGGCGAGGCCCTGTCTCACGCTG 780
OY 795 GTCTTGAACAAGATTGGTGTACTTCAATGGTGTGCTCAAGCGCCAGATTTGGT 854
DB 781 GTGTTCAACAAGATCCGCGACCTTCAAGTCCGTCGCGCTCAAGGCTCCGGGCTTCGGT 840
OY 855 GATGCTGTAAAGCTATGCTTGAACACTTCTTATCTTGACAGGTGTACAGTATACA 914
DB 841 GACGCGCGCAAGCGGATGTGAGGACATGGCCATCTCTACCGGTGTGAGGTGCTGACG 900
OY 915 GAGATCTAGAGACTTGAATTAAGATGCTACATGACACCCCTTGAGAGCTCTAAG 974
DB 901 GAAAGAGTGGGCTGTCCCTGAGAACCGCCGACGCTCTGCTGTGGCCAGGCCCGCAAG 960
OY 975 ATTACAGTTGATTAAGATAGCAACGTAATTTGTAAGTTTCAAGAACTTCAAGACTATT 1034
DB 961 GTGTTGTGACCAAGGAGAGGACCACTGCTGAGGGGCTCGGGCATTCGATCGCATC 1020
OY 1035 GCTAACCTATTGCACTGATTAATTCGCAATTAGAAACAACAACTCTGACTTGTACCGT 1094
DB 1021 GCCGGCGGGGTGGTCATATCCGCGCGAGATCGAAGACAGGACTCCGACTACGACCGC 1080
OY 1095 GAAAACTACAAAGAACGTTTGGCCAAATTAAGCTGTGTGTAGCTGTATTCAAGTAGA 1154
DB 1081 GAGAACTCTCAGAGACCGCTGCGCAACCTGGCCGCGGTGTGCGGTATCAAGGCCGA 1140
OY 1155 GCTCCACAGACACGCTTTAAAGAAATGAACCTTGCATTGAGAGATGCTTAATGCT 1214
DB 1141 GCTGCCACCGAGTGGAGCTCAAGAGCGCAACACCATCGAGAGACCGCTCCGCAAC 1200
OY 1215 ACACGTGCAAGCGTTGAAGAAAGTATCGTTGTGTGTGTGAACACACTTATTAAGGTT 1274
DB 1201 GCGAAGGCTGCGGTGGAAGAGGATGTCGCGGTGGGCGGTCTCTGTGCTGAGTCG 1260
OY 1275 ATTGAAAAAGTAGACGCTTGTGACCTTGAAGGCGATGATGCTACTGAGATTAATGTG 1334
DB 1261 GCTCTGCGCTGAGAGACCTGGGCTGAGCGGCGAGAGCCACCGGTGCCAATCTGTC 1320
OY 1335 CTTCGTGCTTGAAGAGCGCTGTACGTAATTTGCTTTAATGTGTGTACGAAGGCTCC 1394
DB 1321 CCGGTGGCGCTGTGCGCTCGCTGAACAGATGCTTCAACGGGCGCTGTGAGCCCGGC 1380
OY 1395 GTAGTTATTGACAAGTTGAAAAACAGCCCTGACAGAACAGATTTAATGTGCAACAGT 1454
DB 1381 GTCTGTGCGGAGAAAGTGTCCAAACCTGCCGCGGTCAAGGCTCAAGCGCGACCGGT 1440
OY 1455 GAGTGGGTTGATATGATTAACAAGAAATCATTTGACCCGTCAAAAGTAAACGATCAAGC 1514
DB 1441 GAGTACAGAGACCTGCTCAAGGCGCGGCTGCGAGCCGGTGAAGTCAACCGCTCGCG 1500
OY 1515 CTTCAAAAATGCAAGCTTCTAGCTTATTTATTTGACAACAGAACAGTGTGTAT 1574

DB 1501 CTGAGAAAGCGGCGGTCTCATCGCGGCTGTGTTCTTCTCAACACGAGGCCGTGTCCGAC 1560
OY 1575 AAACCTGA 1582
DB 1561 AAGCCGGA 1568

Search completed: November 9, 2001, 11:32:49
Job time: 6025 sec

